Sri Siddhartha Medical College Tumakuru

Name of the Program

MBBS

Sri Siddhartha Medical College, Tumakuru

Name of the Program: MBBS

National Goals

At the end of undergraduate program, the Indian Medical Graduate should be able to:
(a) recognize “health for all” as a national goal and health right of all citizens and by undergoing training for medical profession fulfill his/her social obligations towards realizationof this goal.
(b) Learn every aspect of National policies on health and devote herself/himself to its practicalimplementation.
(c) Achieve competence in practice of holistic medicine, encompassing promotive, preventive,curative and rehabilitative aspects of common diseases.
(d) Develop scientific temper, acquire educational experience for proficiency in professionand promote healthy living.
(e) Become exemplary citizen by observance of medical ethics and fulfilling social andprofessional obligations, so as to respond to national aspirations.

Institutional Goals

In consonance with the national goals, each medical institution should evolve institutional goals to define the kind of trained manpower (or professionals) they intend to produce. TheIndian Medical Graduates coming out of a medical institute should:
(a) Be competent in diagnosis and management of common health problems of the individualand the community, commensurate with his/her position as a member of the health team at the primary, secondary or tertiary levels, using his/her clinical skills based on history, physical examination and relevant investigations.
(b) Be competent to practice preventive, promotive, curative and rehabilitative medicine inrespect to the commonly encountered health problems.
(c) Appreciate rationale for different therapeutic modalities, be familiar with theadministration of the "essential drugs" and their common side effects.
(d) Be able to appreciate the socio-psychological, cultural, economic and environmental factors affecting health and develop humane attitude towards the patients in discharging one'sprofessional responsibilities.
(e) Possess the attitude for continued self-learning and to seek further expertise or to pursueresearch in any chosen area of medicine, action research and documentation skills.
(f) be familiar with the basic factors which are essential for the implementation of theNational Health Programs including practical aspects of the following:

(i) Family Welfare and Maternal and Child Health (MCH);
(ii) Sanitation and water supply;
(iii) Prevention and control of communicable and non-communicable diseases;
(iv) Immunization;
(v) Health Education;
(vi) Indian Public Health Standards (IPHS) at various level of service delivery;
(vii) Bio-medical waste disposal; and
(viii) Organizational and or institutional arrangements.

(g) Acquire basic management skills in the area of human resources, materials and resourcemanagement related to health care delivery, General and hospital management,

principal inventory skills and counselling.
(h) Be able to identify community health problems and learn to work to resolve these bydesigning, instituting corrective steps and evaluating outcome of such measures.
(i) Be able to work as a leading partner in health care teams and acquire proficiency incommunication skills.
(j) Be competent to work in a variety of health care settings.
(k) Have personal characteristics and attitudes required for professional life including personal integrity, sense of responsibility and dependability and ability to relate to or showconcern for other individuals.

Program Educational objectives:

To train the students to be COMPETENT, COMPASSIONATE & CONFIDENT basic doctors/specialists to deliver the health care needs of the society.

At the end of undergraduate program, the medical student should be able to:

1- Recognize `health for all' as a national goal and health right of all citizens and by undergoing training for medical profession fulfill his/her social obligations towards realization of this goal.

2- Learn every aspect of National policies on health and devote himself/herself to its practical implementation.

3 - Achieve competence in practice of holistic medicine, encompassing promotive, preventive, curative and rehabilitative aspects of common diseases.

4-Develop scientific temper, acquire educational experience for proficiency in professionand promote healthy living.

5 - Become exemplary citizen by observation of medical ethics and fulfilling social and professional obligations, so as to respond to national aspirations.

Program Specific Outcome:

The undergraduate students passing out of this medical college should:

PSO1 - Be competent in the diagnosis and management of common health problems of the individual and the community, commensurate with his/her position as a member of thehealth team at the primary, secondary or tertiary levels, using his/her clinical skills based on history, physical examination and relevant investigations.

PSO2- Be competent to practice preventive, promotive, curative and rehabilitative medicine inrespect to the commonly encountered health problems.

PSO3- Appreciate rationale for different therapeutic modalities and be familiar with theadministration of essential drugs and their common side effects.

PSO4- Be able to appreciate the socio-psychological, cultural, economic and environmental factors affecting health and develop humane attitudes towards patients in discharging their professional responsibilities.

PSO5-Possess the attitude for continued self-learning and seek further expertise or pursue research in any chosen area of medicine, action research and documentation skills.

PSO6- Be familiar with the requirements which are essential for the implementation of the National Health Programmes including practical aspects of the following:

i. Family Welfare and Material and Child Health(MCH)

ii. Sanitation and water supply
iii. Prevention and control of communicable and non-communicable diseases
iv. Immunization
v. Health Education
vi. IPHS standards of health at various level of service delivery, medical waste disposal.
vii. Organizational institutional arrangements.

PSO7- Acquire basic management skills in the area of human resources, materials and resourcemanagement related to health care delivery, general and hospital management, principalinventory skills and counseling.

PSO8- Be able to identify community health problems and learn to work to resolve these by designing and instituting corrective steps and evaluating outcome of such measures.

PSO9- Be able to work as a leading partner in health care teams and acquire proficiency in communication skills.

PSO10- Be competent to work in a variety of health care settings.

PSO11- Have personal characteristics and attitudes required for professional life such as personal integrity, sense of responsibility and dependability and ability to relate to or show concern for other individuals.

Graduate attributes

The graduate passing out of this institution should obtain the following set of competencies at the time of graduation:

a. As a **clinician**, demonstrate knowledge of normal and abnormal human structure, functionand development, medico legal, societal, ethical and humanitarian principles that influence health care, national and regional health care policies, ability to elicit and record histories, perform relevant physical examinations, effective clinical problem solving, judgment and ability to interpret and integrate available data, maintain accurate clear and appropriate record of the patient, choose the appropriate diagnostic tests, prescribe and safely administer appropriate therapies, provide a continuum of care at the primary and/or secondary level, ability to appropriately identify and refer patients and familiarity with basic, clinical and translational research as it applies to the care of the patient.
b. As a **leader and member of the health care team and system** work effectively and appropriately with colleagues in an inter-professional healthcare team, recognize and function effectively, responsibly and appropriately as a health care team leader, educate and motivate other members of the team, access and utilize components of the health caresystem and health delivery, participate appropriately in measures that will advance quality of health care and patient safety, recognize and advocate health promotion, disease prevention and health care quality improvement through prevention and early recognition:in a) life style diseases and b) cancer.
c. As a **communicator** demonstrate ability to communicate adequately, sensitively, effectively and respectfully with patients, establish professional relationships with patients and families, be respectful of patient's preferences, values, prior experience, beliefs, confidentiality and privacy and in a manner that encourages participation and shared decision-making.

d. As a **lifelong learner** committed to continuous improvement of skills and knowledge demonstrate ability to perform an objective self-assessment, apply newly gained knowledge or skills to the care of the patient, introspect and utilize experiences, search (including through electronic means), and critically evaluate and apply medical literature for patient care and identify and select an appropriate career pathway that is professionallyrewarding and personally fulfilling.

e. As a **professional who is committed to excellence**, practice selflessness, integrity, responsibility, accountability and respect, respect and maintain professional boundaries between patients, colleagues and society, demonstrate ability to recognize and manage ethical and professional conflicts, abide by prescribed ethical and legal codes of conduct and practice and demonstrate a commitment to the growth of the medical profession as a whole.

Programme Outcomes	
Programme Name: MBBS	
Programme Code: MU01	
Sr. No.	**By the end of the programme, the MBBS Graduate will have /be:**
PO 1	Knowledge and Skills
PO 2	Planning and problem-solving abilities
PO 3	Communication
PO 4	Research Aptitude
PO 5	Professionalism and Ethics
PO 6	Leadership
PO 7	Societal Responsibilities
PO 8	Environment and Sustainability
PO 9	Lifelong Learner

Course Outcomes		
Human Anatomy (M0101)		
CO No.	**At the end of the course, the learner should be able to:**	**Mapped Programme Outcomes**
M0101.1	Comprehend normal position and clinical relevant interrelationships and cross sectional anatomy of various structures of the body	PO1, PO4, PO5, PO7, PO9
M0101.2	Identify the microscopic structure and correlate elementary ultra-structure of various organs and tissues and understand various functions as a prerequisite to altered state in	PO1, PO4, PO5, PO9
M0101.3	Comprehend basic structure and connections of central nervous system to analyze the integrative and regulatory functions of organs and system Shall be able to locate the site of gross lesions in central nervous system according to deficits encountered	PO1, PO4, PO5,PO9
M0101.4	Demonstrate knowledge of principles and sequential development of organ system. Recognize critical stages of effect of teratogens and genetic mutations	PO1, PO4, PO5

M0101.5	Identify and locate all the structures of the body and mark topographically in a subject /	PO1, PO4,PO5, PO9
M0101.6	Identify organs and tissues under microscope	PO1,PO5
M0101.7	Understand principles of karyotyping and genetic mutations in major developmental	PO1,PO9
M0101.8	Identify the structures on X-ray, CT and MR images Understand anatomical basis for safe conduct of common clinical	PO1,
M0101.9	Develop respect to the human cadaver, empathy towards diseased and sense of gratification for the voluntary body donors and their families	PO1,PO5,PO6,PO7,PO8, PO9

Human Physiology (M0102)		
CO No.	**At the end of the course, the learner should be able to:**	**Mapped Programme Outcomes**
M0102.1	Describe structure & functions of normal & sick cell, cell death & repair	PO1, PO2, PO3, PO4, PO5, PO8, PO9
M0102.2	Explain concept of homeostasis & its maintenance. Describe normal function of organ	PO1, PO2, PO3, PO5, PO8, PO9
M0102.3	Explain pathophysiological basis of treatment of common disease conditions.	PO1, PO2, PO3, PO4, PO5, PO9
M0102.4	Perform and describe various procedure of laboratory tests and interpret their results.	PO1, PO2, PO3, PO4, PO5, PO9
M0102.5	Describe the scheme of investigations required for diagnosis and management of common disease conditions.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9

Human Biochemistry (M0103)		
CO No.	**At the end of the course, the learner should be able to:**	**Mapped Programme Outcomes**
M0103.1	Describe the molecular and functional organization of a cell and list its subcellular components.	PO1,PO3,PO4,PO5,PO6, PO7, PO9
M0103.2	Delineate structure, function and inter-relationships of biomolecules and consequences of deviation from normal.	PO1,PO5,PO7,PO9
M0103.3	Summarize the fundamental aspects of enzymology and its clinical application. Describe enzyme inhibitors as poisons and drugs and as therapeutic enzyme.	PO1,PO2,PO4,PO5,,PO7,PO9
M0103.4	Describe digestion and assimilation of nutrients and consequences of malnutrition.	PO1,PO3,,PO5,PO7
M0103.5	Integrate the various aspects of metabolism and their regulatory pathway with structure and function of human body in health & disease.	PO1,PO5,PO7,PO9

M0103.6	Explain the biochemical basis of inherited disorders with their associated sequelae.	PO1,PO3,PO4,PO5,PO 7,PO9
M0103.7	Describe mechanisms involved in maintenance of body fluid and pH homeostasis.	PO1, PO2,PO5, PO7,PO9
M0103.8	Outline the molecular mechanisms of gene expression and regulation; the principles of genetic engineering and their application in medicine	PO1, PO2, PO4, PO5,,PO7, PO9
M0103.9	Summarize the molecular concept of body deficiencies and their application in medicine.	PO1, PO4, PO5, PO7, PO8, PO9
M0103.10	Make **use** of conventional techniques / instruments to perform MB103chemical analysis relevant to clinical screening and diagnosis.	PO1, PO2, PO4, PO5, PO7, PO9
M0103.11	Analyze and interpret investigative data	PO1,PO2,PO3,PO5,PO6 ,PO7,
M0103.12	Demonstrate the skills of solving scientific and clinical problems and decision making	PO1, PO2, PO3, PO4, PO5,PO6,,PO9

Pathology: (M0201)		
CO No.	**At the end of the course, the learner should be able to:**	**Mapped Programme Outcomes**
M0201.1	Enumerate and understand common definitions and terms used in pathology	PO1,PO2,PO3,PO4,PO9
M0201.2	Understand etiopathogenesis of various cellular and tissue lesions. Interpret effects on gross and microscopy	PO1,PO2PO3,PO4,PO5,PO 9
M0201.3	Comprehend, classify, identify and interpret characteristics of benign and malignant tumors on gross and microscopy. Acquire knowledge of spread of tumors along with molecular basis of neoplasia	PO1,PO2PO3,PO4,PO5,PO 9
M0201.4	Define and classify anaemia and other RBC disorders. Comprehend Etiology, characteristics and investigations in various types of anaemia. Prepare and interpret PBS and BM aspiration and biopsy.	PO1,PO2PO3,PO4,PO5,PO 7,PO9
M0201.5	Enumerate, comprehend and interpret leucocyte disorders. Etiopathogenesis and classification of acute and chronic leukemias and lymphomas.	PO1,PO2PO3,PO4,PO5,PO 7,PO9
M0201.6	Understand normal hemostasis. Comprehend and diagnosis congenital and acquired disorders of hemostasis	PO1,PO2PO3,PO4,PO9
M0201.7	Classify, describe, identify and interpret various blood group disorders. Understand and describe compatibility testing and principles of blood component therapy. Must know various transfusion reactions with their investigations along with provisioning of safe blood and autologous transfusion.	PO1,PO2PO3,PO4,PO5,PO 6,PO7, PO8,PO9
M0201.8	Know the process, to collect and interpret various clinical, cytological and histopathological specimens.	PO1,PO2PO3,PO5,PO6,P O7,PO8,PO9

M0201.9	Comprehend Etiopathogenesis, classification, gross and microscopy, genetics, grading, staging, prognostic and complication along with diagnostic and screening methods in various systemic disorders and tumours.	PO1,PO2,PO3,PO4,PO5,PO9

Pharmacology and Therapeutics: (M0202)		
CO No.	**At the end of the course, the learner should be able to;**	**Mapped Programme Outcomes**
M0202.1	Describe the pharmacokinetics and pharmacodynamics of essential and commonly used drugs	PO1,PO2,PO3,PO4,PO5, PO9
M0202.2	Explain indications and contraindications, drug interactions, adverse drug reactions, efficacy and safety of essential & commonly used drugs and their use in special situations such as pregnancy, lactation, infancy and old age	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9
M0202.3	State the principles underlying the concept of 'essential drugs' i.e. selection of essential drugs from adequate data based on safety and efficacy as determined by clinical studies	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9
M0202.4	Rational prescription writing	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9
M0202.5	Identify ADR & Drug interactions	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9
M0202.6	Interpret the data of experiments designed for study of effects of drugs	PO1,PO2, PO3,PO5,PO6,PO7,PO9
M0202.7	Critically evaluate the drug formulations	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9

Microbiology: (M0203)		
CO No.	**At the end of the course, the learner should be able to:**	**Mapped Programme Outcomes**
M0203.1	The student should be well equipped with the knowledge of prevalent communicable diseases of national importance and of the newer emerging pathogens.	PO1,PO2,PO3,PO5, PO6,PO7,PO8,PO9
M0203.2	Know and describe the etiology and pathogenesis of diseases caused by microorganisms	PO1,PO2,PO3,PO4, PO5,PO7,PO9
M0203.3	Plan and interpret laboratory investigations for diagnosis of infectious diseases and correlate the clinical manifestations with the etiological agent.	PO1,PO2,PO3,PO4, PO5,PO6,PO7,PO9
M0203.4	Be conversant with proper methods of collection, storage &transport of clinical materialfor microbiological investigations.	PO1,PO2,PO3,PO5, PO6,PO7,PO8,PO9
M0203.5	Understand the principles of immunology and its application in the diagnosis and prevention of infectious diseases	PO1,PO2,PO3,PO4, PO5,PO6,PO7,PO8,PO9
M0203.6	Understand methods of disinfection and sterilization and their application to control and prevent hospital and community acquired infections including universal biosafety precautions and waste disposal.	PO1,PO2,PO3,PO4, PO5,PO6,PO7,PO8,PO9

M0203.7	The student will understand the use of the different antimicrobial agents including antibiotics to use judiciously and prevent misuse	PO1,PO2,PO3,PO4, PO5,PO6,PO7,PO8,PO9

Community Medicine: (M0301)		
CO No.	**At the end of the course, the learner should be able to:**	**Mapped Programme Outcomes**
M0301.1	Use epidemiology as a scientific tool to make rational decisions relevant to community and individual patient.	PO1,PO2,PO3,PO4,PO5, PO6,PO7,PO8,PO9
M0301.2	Collect, analyze, interpret and present simple community and hospital-based data	PO1,PO2,PO3,PO4,PO5, PO7,PO8,PO9
M0301.3	Use the art of communication with patients including history taking and medico social work	PO1,PO2,PO3,PO5, PO7,PO8,PO9
M0301.4	Diagnose and manage common health problems and emergencies at the individual, family and community levels keeping in mind the existing health care resources in the context of **the** prevailing socio-culture beliefs	PO1,PO2,PO3,PO5, PO6,PO7,PO8,PO9
M0301.5	Identify the environmental and occupational hazards and their control	PO1,PO2,PO3,PO5, PO6,PO7,PO8,PO9
M0301.6	Plan, implement and evaluate a health education programme with skill to use simple audio-visual aids	PO1,PO2,PO3,PO5, PO6,PO7,PO8,PO9
M0301.7	Interact with other members of the health care team and participate in the organization of health care services and implementation of national health programmes	PO1,PO2,PO3,PO4,PO5, PO6,PO7,PO8,PO9

Forensic Medicine &Toxicology :(M0302)		
CO. No.	**At the end of the course, the learner should be able to:**	**Mapped Programme Outcomes**
M0302.1	Knowledge of court & Law enforcing agenesis, Knowledge of Natural &Unnatural Deaths, Certification of Deaths & Organ Transplantation Act.	PO1,PO2,PO3,PO4, PO5,PO6 ,PO7, P08, P09
M0302.2	Knowledge, observation, analysis, interpretation of Post-mortems Findings in Various Types of Deaths And Writing of Postmortem Reports.	PO1,PO2,PO3,PO4,PO5, PO6,PO7,PO9
M0302.3	Judicious & effective communication with Living Cases of medico-legal examination and Good report writing.	PO1,PO2,PO3,PO4,PO5, PO6,PO7,PO9
M0302.4	Knowledge, Diagnosis and management of common Poisoning case and writing medico-legal report and Reporting.	PO1,PO2,PO3,PO4,PO5, PO6,PO7,PO9
M0302.5	Knowledge of various laws and regulation related to Hospital service. Knowledge of medico-legal records related to casualty and emergency medico-legal cases.	PO1,PO2,PO3,PO4,PO5, PO6,PO7,PO9
M0302.6	Acquire Integrated knowledge of Para-clinical and Clinical specialties related to Medico-legal issues.	PO1,PO2,PO3,PO4,PO5, PO6, PO9
M0302.7	Knowledge of laws in relation to medical Practice and develop attitude communication and professional skill to handle ethical and medical negligence issues.	PO1,PO2,PO3,PO4,PO5, PO6,PO7,PO9

General Medicine& allied: (M0401)		
CO No.	**At the end of the course, the learner should be able to:**	**Mapped Programme Outcomes**

M0401.1	At the end of the course the student shall have adequate knowledge to diagnose common clinical conditions with special reference to infectious diseases, nutritional disorder, metabolic disorders and environmental disorders.	PO1,PO2,PO3,PO4,PO5, PO6,PO7, PO8,PO9
M0401.2	Propose diagnostic and investigative procedures and ability to interpret them	PO1,PO2,PO3,PO4,PO5, PO6,P07, PO9
M0401.3	Outline various modes of management including drug therapy especially doses, side effects, toxicity, indications, contraindications and interaction	PO1,PO2,PO3,PO4,PO5, PO6,PO7, PO8,PO9
M0401.4	Provide first level management of acute emergencies promptly and efficiently and decide on the timing and level of referral if required	PO1,PO2,PO3,PO4,PO5, PO6,PO7, PO8,PO9
M0401.5	Recognize geriatric disorders and their management	PO1,PO2,PO3,PO4,PO5, PO6,PO7, PO8,PO9
M0401.6	Apply clinical skills of history taking, clinical examination to diagnose common medical disorders and medical emergencies	PO1,PO2,PO3,PO4,PO5 ,PO6,PO7, PO8
M0401.7	Perform simple routine investigations like haemogram, stool, urine, sputum and other biological fluids	PO1,PO2,PO3,PO4,PO5, PO6,PO7, PO8,PO9
M0401.8	To interpret simple X-Ray, ECG, CT scan and laboratory report findings	PO1,PO2,PO4,PO5,PO6, PO7,PO9
M0401.9	Assist common bedside medical procedures like pleural tap, lumbar puncture, bone marrow aspiration, catheterization, insertion of Ryle's tube etc.	PO1,PO2,PO3,PO4,PO5, PO6,PO7, PO8,PO9
M0401.10	sympathetic and compassionate attitude towards patient and their relatives	PO1,PO2,PO3,PO5,PO7
M0401.11	A curiosity to learn about medical research	PO1,PO2,PO4,PO5,PO6, PO7,
M0401.12	To correctly record case files, medical certificates	PO1,PO2,PO3,PO5, PO7,PO9
M0401.13	Diagnose and manage common respiratory illness	PO1,PO2,PO4,PO,PO6,P O7,PO8,
M0401.14	Should be able to diagnose provisionally Psychiatric disorders	PO1,PO2,PO3,PO5,PO6, PO7,PO8, PO9
M0401.15	Should be able to diagnose and manage common dermatology problems as physician of first contact	PO1,PO2,PO4,PO,PO6,P O7, PO8, PO9 **j**

General Surgery and allied: (M0402)		
CO No.	**At the end of the course, the learner should be able to:**	**Mapped Programme Outcomes**
M0402.1	Describe aetiology, pathophysiology, principles of diagnosis and management of common surgical problems including emergencies in adults and children.	PO1,PO2, PO4,,PO5,PO7,PO9
M0402.2	Define indications and methods for fluid and electrolyte replacement therapy including blood transfusion;	PO1,PO2,PO4,PO5,PO7 ,PO9
M0402.3	Define asepsis, disinfection and sterilization and recommend judicious use of antibiotics;	PO1,PO2,PO3,PO4,PO 5,PO6,PO7,PO 9
M0402.4	Diagnose common surgical conditions both acute and chronic, in adult and children	PO1,PO2,PO3,PO5,PO7 ,PO9

M0402.5	Plan various laboratory tests for surgical conditions and interpret the results;	PO1,PO2,PO3,PO4,PO5 ,PO6,PO9
M0402.6	Identify and manage patients of hemorrhagic, septicaemic and other types of shock	PO1,PO2,PO4,PO5 ,PO9
M0402.7	Be able to maintain patient air-way and resuscitate any critically ill patient	PO1,PO2,PO3,PO5,PO6 ,PO7,PO9
M0402.8	Monitor patients of head, chest, spinal and abdominal injuries, both in adults and children;	PO1,PO2,PO3,PO5,PO6 ,PO7,PO9
M0402.9	Acquire principles of operative surgery, including pre-operative, operative and postoperative care and monitoring.	PO1,PO2,PO3,PO5,PO6 ,PO9
M0402.10	Treat open wounds including preventive measures against tetanus and gas gangrene;	PO1,PO2,PO5,PO6,PO7 ,PO8,PO9
M0402.11	Diagnose neonatal and pediatric surgical emergencies and provide sound primary care before referring the patient to secondary / tertiary centres;	PO1,PO2,PO3,PO5,PO6 ,PO7,PO9
M0402.12	Recognize the importance of clinical Orthopaedics & diagnose and manage majority of the conditions in clinical Orthopaedics on the basis of clinical assessment & investigations	PO1,PO2,PO3,PO4,PO5 ,PO6,PO7, PO8,PO9
M0402.13	Carry out Bag Mask Ventilation and Basic Life Support(COLS)	PO1,PO2,PO3,PO5,PO6 ,PO7,PO9
M0402.14	At the end of the course student should know basic principles of various imaging modalities to diagnose various diseases and basic principles of recent advances	PO1,PO2,PO3,PO4,PO 5,PO7,PO8,PO 9

OBSTETRICS AND GYNAECOLOGY. (M0403)		
CO No.	**At the end of the course, the learner should be able to:**	**Mapped Programme Outcomes**
M0403.1	Use demography & vital statistics as a scientific tool to make rational decisions relevant to community and individual patient.	PO1,PO2,PO4,PO5,PO7
M0403.2	Understand the anatomy, physiology of the female reproductive system including the development of the embryo and changes in maternal physiology in pregnancy	P01,PO4,P05,P08
M0403.3	Diagnose pregnancy and carry out antenatal care and do pre-conceptional counselling	PO1,PO2,PO3,PO4,PO5, PO6,PO7,PO8
M0403.4	Manage complications including medical disorders in pregnancy	PO1,PO2,PO3,PO4,PO5, PO7,PO9
M0403.5	Manage normal labour, puerperium and comprehend abnormal labour and puerperium	PO1,PO2,PO3,PO4,PO5, PO6,PO9
M0403.6	Understand the physiology and care of lactation and the newborn	PO1,PO2,PO3,PO5,PO7, PO8
M0403.7	Comprehend the basics of MTP, Contraception and advice women where required	PO1,PO3,PO7,PO8, PO9
M0403.8	Understand the basics of reproductive endocrinology including infertility and menopause and do basic management	PO1,PO3,PO4,PO5
M0403.9	Understand the diagnosis and basic management of benign gynaecological diseases of female reproductive tract	PO1,PO2,PO3,PO4,PO5, PO9

M0403.10	Comprehend the basic knowledge and management of Urogynaecology	PO1,PO3,PO5
M0403.11	Understand the basics of diagnosis and outline of prevention and management of Gynaecological Oncology	PO1,PO3,PO5,PO9
M0403.12	Perform basic skills (Clinical & Communication) of Obstetrics &Gynaecology	PO1,PO2,PO3,PO5,PO6, PO9

Paediatrics: (M0404)		
CO No.	**At the end of the course, the learner should be able to:**	**Mapped Programme Outcomes**
M0404.1	Assess growth and development during neonatal period, childhood and adolescence and identify deviations from normal**.**	PO 1, PO 2, PO 3, PO 4,PO 5,PO 7,PO 9
M0404.2	Measure the age appropriate requirement of nutrient and assess the nutritional status of healthy and sick children.	PO **1,** PO 3, PO 4, PO 5, PO7, PO8, PO9
M0404.3	Identify and manage malnourishment in children.	PO **1,** PO 2, PO 3, PO 4, PO 5, PO6, PO7,
M0404.4	Diagnose, manage and prevent common paediatric infectious diseases.	PO **1,** PO 2, PO 3, PO4, PO5, PO6, PO7, PO8,
M0404.5	Plan Diagnosis and management of common systemic illnesses.	PO 1, PO 2, PO 4, PO 5, PO6, PO7, PO9
M0404.6	Distinguish between normal and sick new-horn.	PO **1,** PO 2, PO 3, PO 4, PO 5, PO 6, PO 9
M0404.7	Evaluate and Plan Management of paediatrics and neonatal emergencies.	PO 1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 9
M0404.8	Identify and plan management of common surgical problems in children.	PO **1,** PO 2, PO 3, PO 4, PO 5, PO 6, PO 9
M0404.9	Counsel parents about nutrition, immunisation, growth and acute and chronic illnesses.	PO **1,** PO 3, PO 4, PO 5,PO6, PO7,PO8,PO9
0ENT: (M0405)		
CO No.	**At the end of the course, the learner should be able to:**	**Mapped Programme Outcomes**
M0405.1	Basic Pathophysiology of common ENT disease and emergencies.	PO1,PO2,PO3,PO4,PO5, P06,P07,P08,P09
M0405.2	Rational use of drugs commonly used and their adverse effects	PO1,PO2,PO3,PO4,PO5, PO6,PO8,PO9
M0405.3	Art of communication with patients, their relatives and medical social workers	PO1,PO2,PO3,PO5, PO6,PO8,PO9
M0405.4	Always willing to do some innovative things apart from routine	PO1,PO2,PO3,PO5, PO6,PO7,PO8,PO9
M0405.5	Manage basic ENT problems at primary level and be able to refer whenever necessary	PO1,PO2,PO3,PO5, PO6,PO7,PO8,PO9
M0405.6	Identify the environmental and occupational hazard and treat and treat/control them by participating in campus and national programme	PO1,PO2,PO3,PO5, PO6,PO7,PO8,PO9
M0405.7	Always be a team facilitator and work as a team along with other members of health care team.	PO1,PO2,PO3,PO4,PO5, PO6,PO7,PO8,PO9
Ophthalmology: (M0406)		
CO No.	**At the end of the course, the learner should be able to:**	**Mapped Programme Outcomes**
M0406.1	Possess knowledge &skill to the student that shall enable him/ her to diagnose common eye problems.	PO1,PO2,PO3,PO5,PO7, PO9

M0406.2	Should be able to manage major Ophthalmic emergencies including first aid and basic diagnostic and therapeutic procedures	PO1,PO2,PO3,PO5,PO7, PO9
M0406.3	Able to deal with local & systematic disease which affects vision and take necessary action required to minimize the sequence of such disease.	PO1,PO2,PO3,PO5,PO7, PO8,PO9
M0406.4	Be aware of adverse drug reaction with special reference to Ophthalmic manifestations.	PO1,PO2,PO3,PO5,PO7, PO8,PO9
M0406.5	Be aware about National programme of blindness and be able to implement it for Prevention of blindness	PO1,PO2,PO3,PO5,PO6, PO7,PO8,PO9
M0406.6	Able to organise community based survey and motivate for cataract surgery and eye donation.	PO1,PO2,PO3,PO5,PO6, PO7,PO8,PO9
M0406.7	Should be able to establish rapport with seniors, colleagues and paramedical workers to function as an effective team leader	PO1, PO2, PO3, PO5, PO6, PO7, PO8, PO9

VICE PRINCIPAL
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